

Mathematical Biosciences

an international journal

Volume 89

ASOK K. SEN (Indianapolis, IN)	
An Analysis of Carrier-Facilitated Transport through Thin Films of Hemoglobin and Myoglobin	1
H. ECHAVARRIA HERAS (San Ysidro, CA)	
Convective Flow Effects in Receptor-Mediated Endocytosis	9
HERBERT W. HETHCOTE (Iowa City, IA)	
Optimal Ages of Vaccination for Measles	29
KAKUJI TOJO (Piscataway, NJ)	
Pharmacokinetic Model of Transcorneal Drug Delivery	53
BARBARA J. MESSINGER-RAPPORT AND YORAM RUDY (Cleveland, OH)	
Regularization of the Inverse Problem in Electrocardiography: A Model Study	79
ANNOUNCEMENTS	119
ERRATUM	123
ERRATUM	125

Elsevier

CLAUDIO COBELLI AND KARL THOMASETH (Padua, Italy)	
On Optimality of the Impulse Input for Linear	
System Identification	127
CLAUDIO COBELLI AND KARL THOMASETH (Padua, Italy)	
Optimal Equidose Inputs and Role of Measurement	
Error for Estimating the Parameters of a	
Compartmental Model of Glucose Kinetics from	
Continuous- and Discrete-Time Optimal Samples	135
SHAUL SOREK, JACOB BEAR, AND ZVI KARNI (Haifa, Israel)	
Intracranial Compartmental Pulse-Wave Simulation	149
LUC PRONZATO AND ERIC WALTER (Gif-sur-Yvette, France)	
Robust Experiment Design via Maximin Optimization	161
H. I. McCALLUM (St. Lucia, Australia)	
Pulse Fishing May Be Superior to Selective Fishing	177
DAVID H. ANDERSON (Dallas, TX), JOSEPH G. McWILLIAMS	
(Nacogdoches, TX), AND TOWANNA ROLLER (Dallas, TX)	
The Unilateral Circulation Compartmental Model	183
M. SALEEM AND R. K. PANDEY (Kanpur, India)	
Egg-Eating Age-Structured Predator and Prey Interactions:	
Some Simple Cases	209
KRZYSZTOF KOWALSKI (Łódź, Poland)	
Dynamics of the Scatchard Model for Ligand-Receptor Binding	225
BOOK REVIEWS	
GARY S. RICHARDSON	
<i>The Mathematical Structure of the Human Sleep-Wake Cycle.</i>	
<i>Lecture Notes in Biomathematics</i> (Steven H. Strogatz)	231
DONALD L. DEANGELIS	
<i>Ecological Simulation Primer</i> (Gordon L. Swartzman	
and Stephen P. Kaluzny)	235
IRA M. LONGINI, JR.	
<i>Spatial Aspects of Influenza Epidemics</i> (Andrew D. Cliff,	
Peter Haggett, and J. Keith Ord)	237
BOOKS RECEIVED	241
ANNOUNCEMENT	243
ANNOUNCEMENT	247

